

## Linda Drainage Improvements

YC-02

### I. Project Sponsor Contact Information

Lead Agency/Organization	Yuba County
Name of Primary Contact(s)	Michael Lee
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Phone	530-749-5420
Project Partners/Collaborators	Yuba County Water Agency (possible partner to fund local match if required).

### II. General Project Information

Project Title	Linda Drainage Improvements
Project Total Budget	\$5,625,000
Project Funding Match	The Community of Linda is designated a disadvantaged community in the census data and may be eligible for the waiver since the project will directly reduce the severity of flooding for the Linda community.  \$1,407,000 if local match is required. Funds would be from the County's South Yuba Drainage fee. Other funding source could be from the Yuba County Water Agency.
Project Funding Request	\$5,625,000 if local matched is waived.  \$4,218,000 if local match is required.
Can a detailed cost estimate be provided upon request?	No
Project Location:	The Community of Linda from Hammonton-Smartsville Road to south of Erle Road
Could you provide a map of the project location including boundaries upon request?	Yes
Project Location Description:	The proposed projects are mostly in the easterly and southerly parts of the Community of Linda. Projects range from Hammonton-Smartsville Road to south of Erle Road and near Yuba Community College to east of Griffith Avenue.
County	Yuba
City/Community	Community of Linda
Watershed/subwatershed	Linda and Olivehurst Drains

Groundwater Basin	Yuba Groundwater Basin/South Yuba Sub-basin
Project Type	Planning Facility Construction Acquisitions

**III. Project Description**

Projects components consist of environmental studies, engineering design, property acquisition, and facility construction on the following phases: 1) the linear detention channel (Eastside Interceptor) from Hammonton-Smartsville Road to the northern termini of the Orchard Detention Basin; 2) gravity drains from the southern termini of the Orchard Detention Basin to the Olivehurst Interceptor; 3) channelization and culvert improvements of the Olivehurst Drain from Wood Lane to Griffith Avenue at Linda Avenue, and 4) detention basin between Hammonton-Smartsville Road and North Beale Road north of Yuba Community College.

Phase 1 will construct a new channel that will drain runoff from the northeastern portion of the Linda Drain watershed and route the runoff south to the Orchard Detention Basin along the easterly side of the Community of Linda. The depth of the channel will average slightly more than 10 feet. The bottom width is about 45 feet and the top width is about 130 feet. Water quality features such as low flow channels and pools may be incorporated into the channel design.

Phase 2 will provide two 60-inch pipes to convey water along the south side of Erle Road from the southern termini of the Orchard Detention Basin westerly to the Olivehurst Interceptor.

Phase 3 will channelize the upper Olivehurst Drain and improve culverts from Wood Lane to Griffith Avenue at Linda Avenue. The bottom width of the channel will vary from six to eight feet. Culverts in the Olivehurst Drain will be improved to accommodate flows. A new 60-inch pipe will be installed from Griffith Avenue at Linda Avenue easterly to the Olivehurst Drain. This will connect the Olivehurst Drain to the northern end of the Orchard Detention Basin.

Phase 4 will construct a 6 acre detention basin that is 4 feet deep to collect flows in the Linda Drain. This detention basin could be used for a possible park feature such as a playing field. The basin will be constructed between Hammonton-Smartsville Road and North Beale Road north of the Yuba Community College.

**IV. Project Rationale/Issues Statement**

**Flood Management**

The project will improve the flood protection for the Community of Linda by constructing a channel to route upstream runoff to the east of the Linda Community and connect to an existing detention basin. The new 6 acre detention basin will also improve flood protection for the Community of Linda by

reducing downstream peak flows. These projects will reduce the amount of runoff that travels through Linda and reduce the 100-yr flood elevations.

**Water Quality**

The project will also improve water quality by mitigating urban and agricultural runoff. This will be achieved by implementing vegetated low flow channels and pools, where possible, within the channels that will filter urban runoff and absorb nutrients from agricultural runoff.

**V. Goals/Objectives/Performance Metrics**

Goals Addressed by the Project	<p>Goal 2: Protect, restore and enhance water quality for water users and in support of healthy watersheds</p> <p>Goal 3: Preserve and restore watershed health and promote environmental stewardship</p> <p>Goal 5: Protect public safety through integrated flood management</p> <p>Goal 7: Promote equitable distribution of resources to disadvantaged communities and tribes across the region</p>
Objectives Addressed by Project	<p>2.1 - Improve water quality by mitigating for urban and agricultural runoff</p> <p>3.4 Enhance floodplain function and habitat to achieve multiple flood management benefits</p> <p>5.1 Improve integrated flood management to increase flood protection</p> <p>7.1 Support DAC project development/ implementation activities by providing ongoing outreach, proposal and funding development assistance and training</p>
What performance metrics will be used to demonstrate that objectives are being met? Wherever possible, provide a quantitative measurement reflecting successful project outcomes.	<p>The lowering of the 100-yr flood elevation in the Community of Linda.</p> <p>The lowering of downstream peak flows and water elevations during rain events.</p> <p>The lowering of flood insurance rates for property owners in Linda. This will be achieved by removing properties from Special Flood Hazard Areas which will reduce their insurance rates.</p>

**VI. Resource Management Strategies**

<b>Improve Water Quality</b>	
Pollution Prevention	Vegetated low flow canals will absorb pollutants

	reducing their loading.
Urban Runoff Management	Project manages urban runoff.
<b>Improve Flood Management</b>	
Flood Risk Management	Project reduces flood risks to the Community of Linda.

**VII. Statewide Priorities**

**Expand Environmental Stewardship**

- Expand environmental stewardship to protect and enhance the environment by improving watershed, floodplain, and instream functions and to sustain water and flood management ecosystems

**Practice Integrated Flood Management**

- Improved flood protection
- More sustainable flood and water management systems
- Enhanced floodplain ecosystems

**Ensure Equitable Distribution of Benefits**

- Develop multi-benefit projects with consideration of affected disadvantaged communities and vulnerable populations

**Climate Change Adaptation**

This project assists the region in adapting to the effects of climate change by providing greater flood protection and by mitigating for the water quality impacts associated with flood that could occur with more extreme weather events.

**GHG Emissions Reduction**

Construction-related GHG reduction strategies will be considered in the design phase of the project.

**VIII. Project Status and Schedule**

**For Conceptual Projects Only:** The Project is currently in the Conceptual Stage: **YES**

Project Stage	Description of Activities in Each Project Stage	Planned/Actual Start Date	Planned/Actual Completion Date
Planning	Preliminary planning completed--South Yuba Drainage Master Plan, 2012		
Design	Conceptual design--South Yuba Drainage Master Plan,		

	2012		
Environmental Documentation (CEQA/NEPA)	TBD- pending funding		
Permitting	TBD- pending funding		
Tribal Consultation (if not applicable, indicate by N/A)	N/A		
Construction/ Implementation	Awaiting funding		

**IX. Project Technical Feasibility**

a. List the water planning documents that specifically identify this project.	South Yuba Drainage Master Plan 2012
b. List the adopted planning documents the proposed project is consistent with (e.g., General Plans, UWMPs, GWMPs, Water Master Plans, Habitat Conservation Plans, etc.)	Yuba County General Plan 2030 and the South Yuba Drainage Master Plan 2012
c. List technical reports and studies supporting the feasibility of this project.	South Yuba Drainage Master Plan 2012